

Fig. 1

APPLN. FILING DATE: JULY 6, 2001

TITLE: NOVEL REGULATORY SEQUENCES OF THE MCP-1
GENE

INVENTOR(S): RÖSL ET AL

APPLICATION SERIAL NO: TBA

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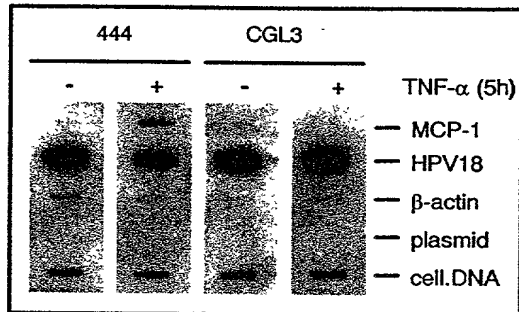


Fig. 2

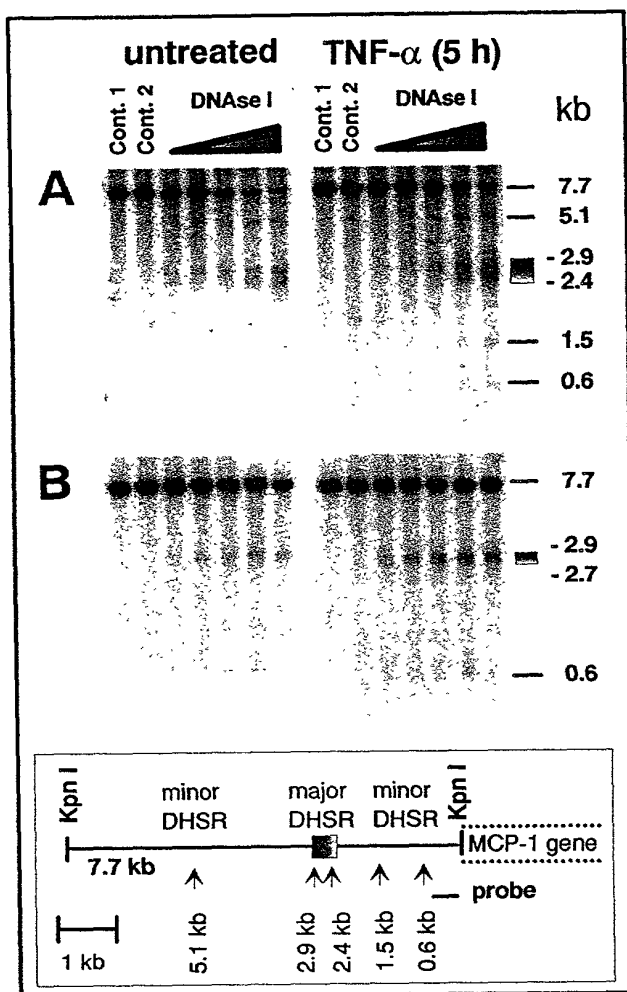


Fig. 3

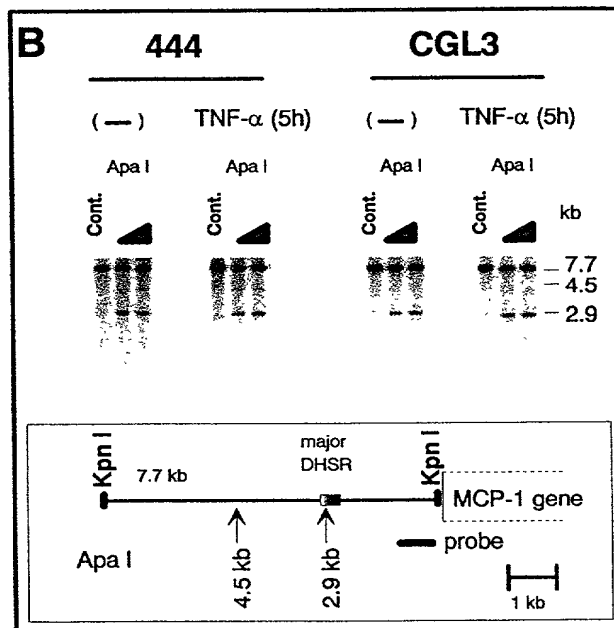
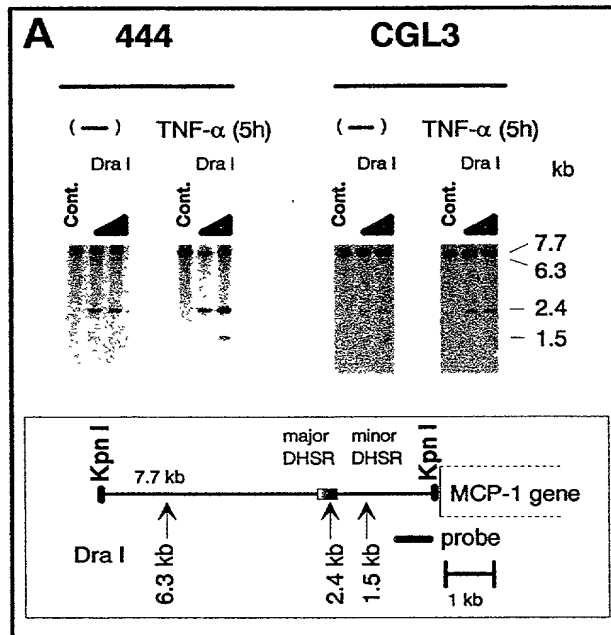


Fig. 4

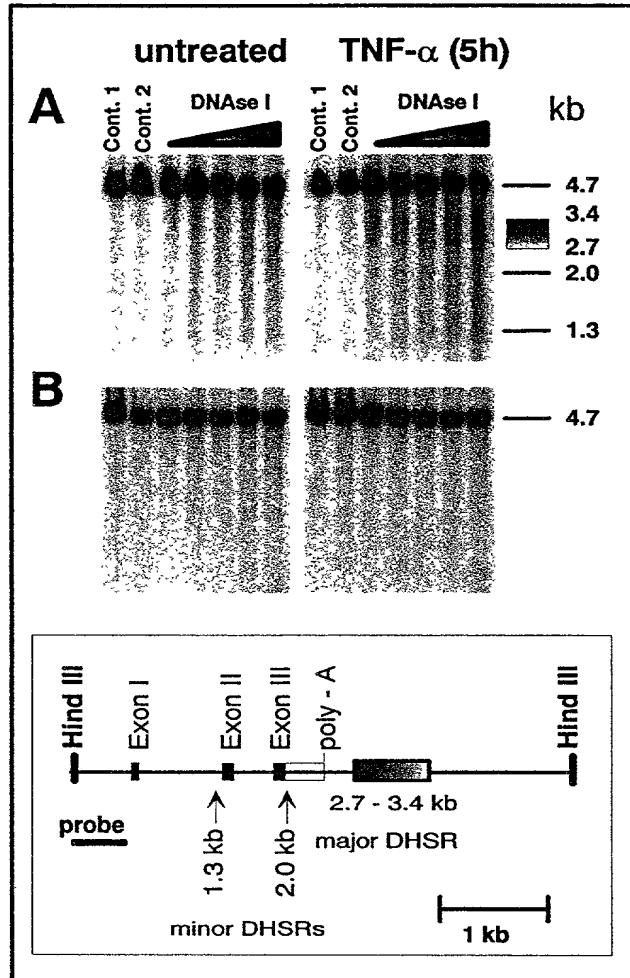


Fig. 5

Minor 5'DHSR (5.1 kb subfragment)

-5050 AAAATATAAA AATTAGCCAG GCGTGATGTC ATGTGCCTGT AGTCCCAGCT
SP 1

-5000 ACTCGGGAGG CTGAGGCAGG AGAACCTCTT GAATCCAGGA GGCQCAGGTT
-4950 GCAGTGAGCA GAGATAGTGC CACTGCACTC CAGCCTGGGT GACAGAGTGA
-4900 GACTCTGTCT CAAAAAATA AAATAAATA AAAAAATGCAG ACTGTGATTCT
-4850 AGCAGGTCTG GGTGAAGCC CAGAACTCTC TGATAAATTC AATGGCACTT
-4800 AACTACTTGG AGGTCATGGA TGCCTTTGCT AATCTAATAG AAGCTACTGA

Major 5'DHSR (2.9 - 2.4 kb subfragments)

-2750 GGCTTGTGCC GAGATGTTCC CAGCACAGCC CCATGTGAGA GCTCCCTGGC
Apa I

-2700 TCCGGGCCCCA GTATCTGGAA TGCAGGCTCC AGCCAAATGC ATTCTCTTCT
NFkB NFkB

-2650 ACGGGATCTG GGAACCTCCA AAGCTGCCTC CTCAGAGTGG GAATTTCCAC
-2600 TCACTTCTCT CACGCCAGCA CTGACCTCCC AGCGGGGGAG GGCATCTTTT
-2550 CTTGACAGAG CAGAAGTGGG AGGCAGACAG CTGTCACTTT CCAGAAGACT
-2500 TTCTTTTCTG ATTCATACCC TTCACCTTCC CTGTGTTTAC TGTCTGATAT
-2450 ATGCAAAGGC CAAGTCACTT TCCAGAGATG ACAAACCTCTT CCTGAAGTAG
-2400 AGACATGCTT CCAACACTCA GAAGCCTATG TGAACACTCA GCCAGCAAAG
SP 1

-2350 CTGGAAGTTT TTCTCTGTGA CCATGGGCTA ATTGGTCTCC TTCTCTGGAT
AP-1

-2300 TGTGGCTTAT CAGATAAAAA CAAGTGAGTC ATGCCACAGG ATGTCTATAA
-2250 GCCCATTGAT TCTGGGATTC TATGAGTGAT GCTGATATGA CTAAGCCAGG
Dra I

-2200 AGAGACTTAT TATAAGATCT CAGCATCTTT CAGCTTGTTA ACCTAGAGAA
-2150 AACC GAAGC ATGACTGGAT TATAAAGGGA AATTGAATGC GGTCCACCAA

Minor 5'DHSR (1.5 kb subfragment)

SP 1 Dra I

-1300 AAGGAGGAGG CAGTGGGCTA GGAGAATCGA GAGATCAGAA TTTTAAACTC
-1250 AGCCCAGCCA TTAACATGCC TCAAGTACTC CTATCATATT TGTAAGAGAC
-1200 AACAGTTCAC TGAATGAAT TCTAAGGTCT TTGGGTTTTT ATCAGTGTGC
NF-IL 6

-1150 TTCTGTAGTT TCTGAGGAAA TCTAAGGCAC AACTGAGGAA TGAAGTCAGG
-1100 CTTTCCAATT CCCGAAATAC TCCTCCACTG CTTACTCATG TCCCTTGGAA
-1050 ATTAAGAAGG AAGCCAGGAG CATAGCTGCC ATAACCAGGG ATGAACCTCT

Minor 5'DHSR (0.6 kb subfragment)

- 500 AGGCTTCTAT GATGCTACTA TTCTGCATTT GAATGAGCAA ATGGATTTAA
- 450 TGCATTGTCA GGGAGCCGGC CAAAGCTTGA GAGCTCCTTC CTGGCTGGGA
- 400 GGCCCTTGG AATGTGGCCT GAAGGTAAGC TGGCAGCGAG CCTGACATGC
- 350 TTTCACTCTAG TTTCTCTGCT TCCTTCCTTT TCTGCAGTTT TCGCTTCACA
- 300 GAAAGCAGAA TCCTTAAAAA TAACCTCTT AGTTCACATC TGTGTCAGT

Minor 3'DHSR (1.3 kb subfragment)

+ 750 CAAAGATCAC ATTCTAGCTC TGAGGTATAG GCAGAAGCAC TGGGATTTAA
+ 800 TGAGCTCTTT CTCTTCTCCT GCCTGCCTTT TGCTTTTCC TCATGACTCT
+ 850 TTTCTGCTCT TAAGATCAGA ATAATCCAGT TCATCTAAA ATGCTTTTTC

Minor 3'DHSR (2.0 kb subfragment)

+1550 TGCAGCTAAC TTATTTTCCC CTAGCTTTCC CCAGACACCT TGTTTTATTT
NF-IL 6

+1600 TATTATAATG AATTTTGT TTGATGTGA AACATTATGC CTTAAGTAAT
+1650 GTTAATCTT ATTTAAGTTA TTGATGTTT AAGTTTATCT TTCATGGTAC
NF-IL 6

+1700 TAGTGTTTTT TAGATACAGA GACTTGGGGA AATTGCTTTT CCTCTGTAC

Major 3'DHSR (2.7 - 3.4 kb subfragments)

NF-IL 6

+2430 TAGGAAAATT ATAGGATCAT TAAGAAAGGA GAAGGAAGAG TGGGAGCAAA
+2480 TACCTGGAGG TAGAAATGGT GATGATGTGT ACATCAAGCA GGGAGAAAAC
+2530 CAATGAACCA GATGCGAATT CGGGCCACA CCAATGTCAA GGGATGACAA
AP-1

+2580 TTAGAAAGGA AGGTGAGTC AAGGGATTG AATGTTAGGG TGAAAAGTTA
+2630 CTACTCAACT CTGTAGGTTA AAAGGAAACG TTGAGAATCT TCAGTCCAAT
+2680 GAGGAGGGAT GTGCCATGTT TAGAGATTCA GAGATAAGTT TCAGGAAATG
+2730 TAAGTATAG ATTTTATACA TACACAGAGA AATACGGACT AGTGAGAAGC
+2780 TATTGCCATG GTCCAAGCAA GAGATGATGA AGGCCTAAAT ATGGAGCCAA
+2830 AGAGGCAGCA ATGAAGAATG AGCCATGCAG GGTGAAATGC TGCATGTTGT
+2880 AAATGGAGGA GAAAGACCTG TGAATTCAGA TATGAAAACC TCATCTTCAA
+2930 CCCACATTTT AAGGGGGCAG CTTCCTGAA ACCAGAATGT GTTCCCTCC
+2980 ATTACTATAC CCCCATCCCA ATCTCAGGCA CCTGGAATCA TCCATTTAAA

Fig. 6

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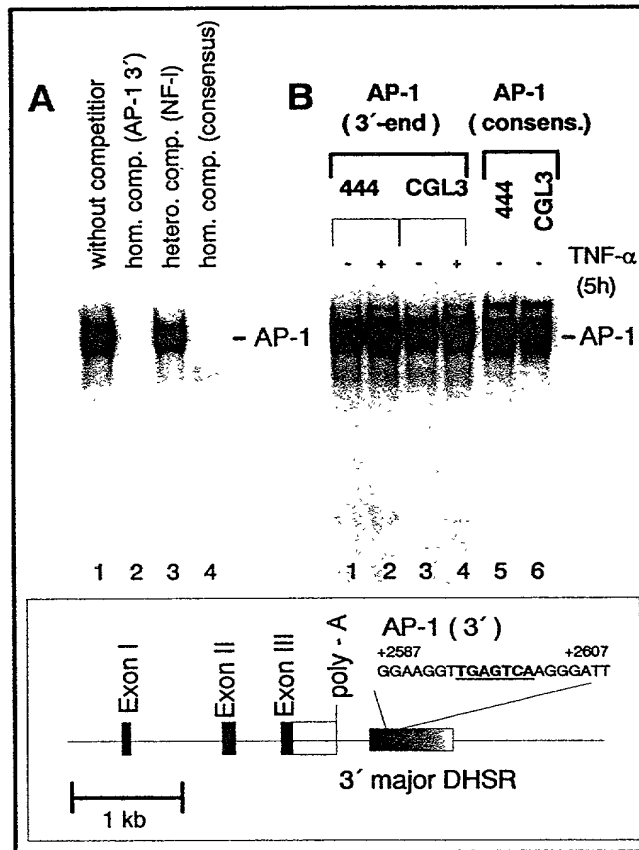


Fig. 7

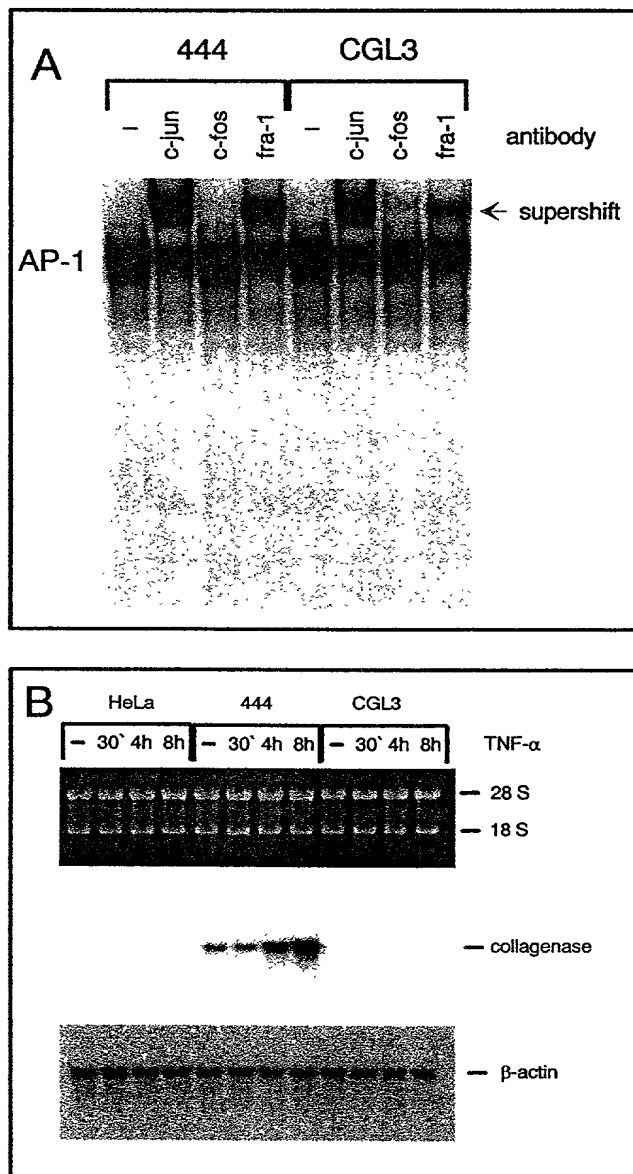


Fig. 8

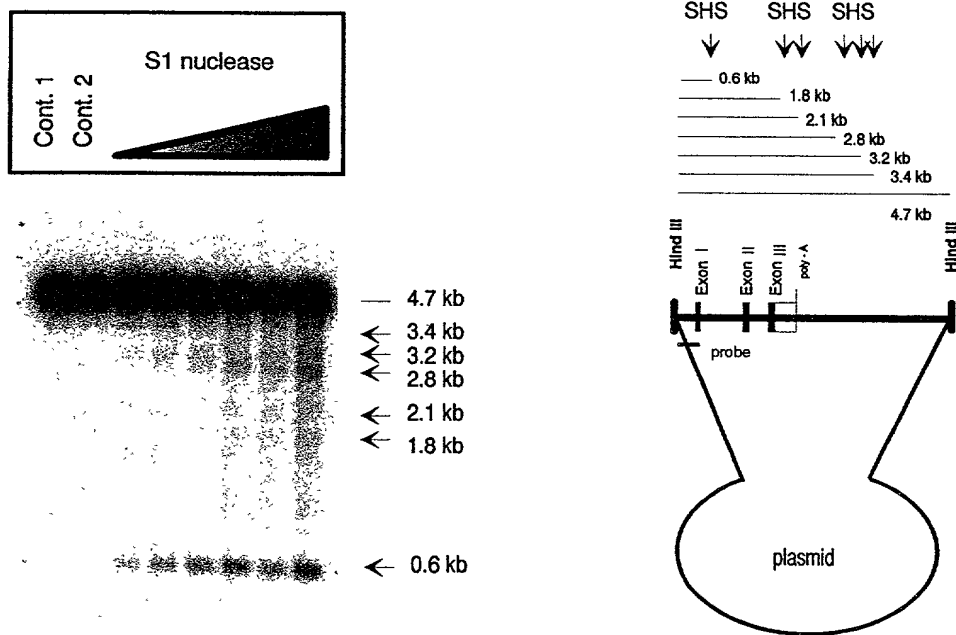


Fig. 9

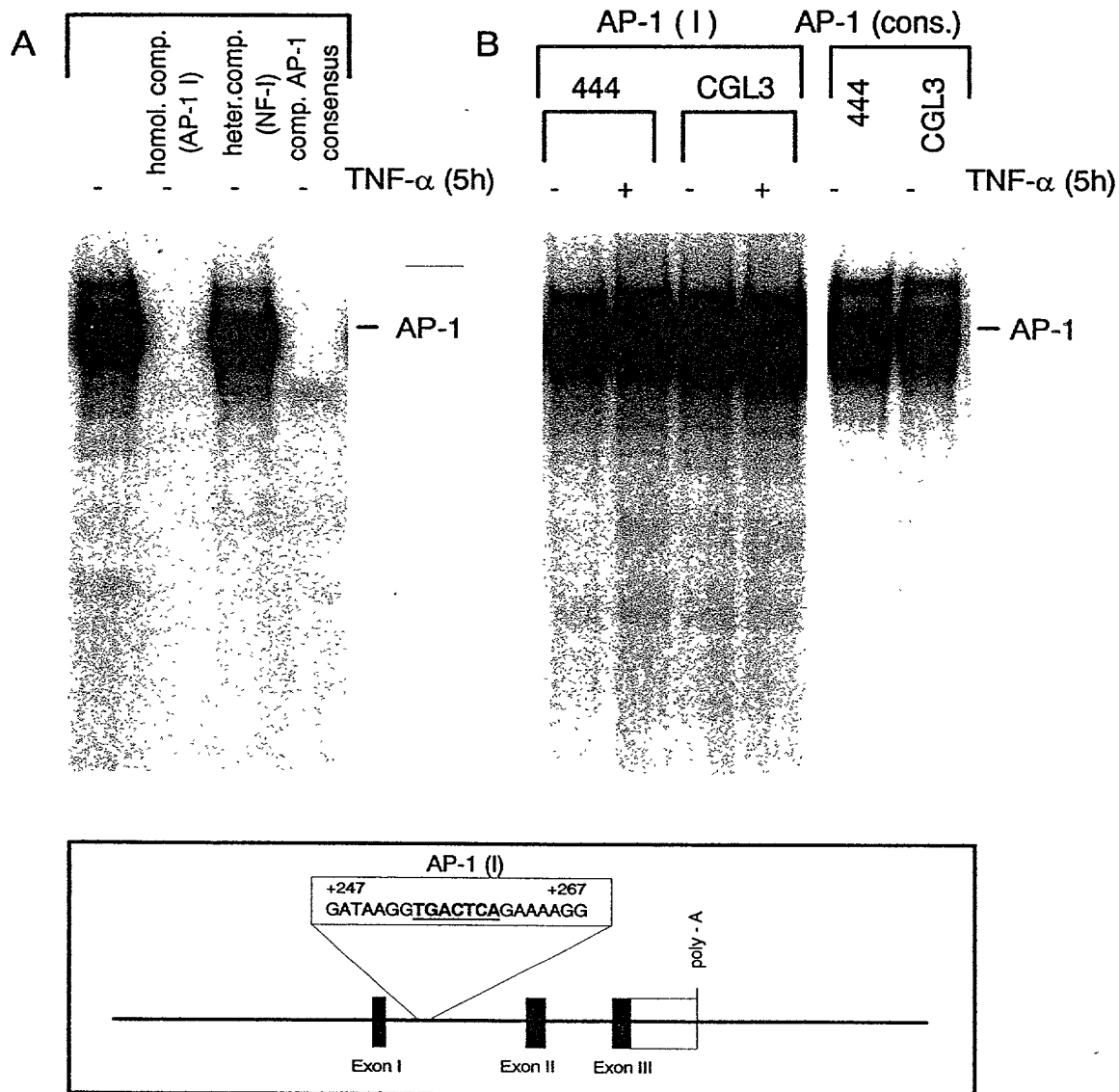


Fig. 10